

Amendments to the claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A device ~~capable of~~ for providing information about a physical condition and an environmental condition, comprising:
a first sensor physically associated with a user for detecting predetermined environmental hazards;
a second sensor physically associated with a user for detecting physical conditions of the ~~user;~~ and user; and
means associated with the sensors for notifying the user or a third party of the detection of the environmental hazard or physical condition exceeding a predefined limit.
2. (original) The device of claim 1, wherein the device comprises a wristband.
3. (original) The device of claim 1, wherein the device comprises a tag attached to the user.
4. (original) The device of claim 1, wherein the device comprises a patch attached to the user.
5. (previously presented) The device of claim 1, wherein the first sensor detects at least one of: predetermined chemicals, predetermined biological organisms, and radiation.
6. (original) The device of claim 1, wherein the device is assigned a unique identification.

7. (previously presented) The device of claim 1, wherein the notifying means comprises an alarm for notifying the user of the detected environmental hazard or physical condition.

8. (original) The device of claim 7, wherein the alarm comprises a visual alarm.

9. (previously presented) The device of claim 7, wherein the alarm is operably connected to an electronic circuit that communicates with the sensors.

10. (original) The device of claim 9, wherein the alarm comprises an audible alarm.

11. (previously presented) The device of claim 1, including means for conveying information obtained from the sensors to a third party.

12. (previously presented) The device of claim 11, wherein the conveying means comprises a passive transmitter.

13. (original) The device of claim 12, wherein the transmitter comprises a radio frequency transmitter.

14. (previously presented) The device of claim 12, wherein the device is assigned a unique identification and wherein the transmitter conveys information obtained from the sensors and the unique identification to a third party.

15. Canceled

16. (previously presented) The device of claim 1, wherein the physical conditions comprise biological or chemical changes of the user.

17. (previously presented) The device of claim 16, wherein the second sensor detects at least one of: blood pressure, heart rate, temperature, oxygen level, glucose level, skin condition, blood chemistry, protein levels, carbohydrate levels, lipid levels, or genetic material levels or changes of the user.

18. (previously presented) The device of claim 1, wherein the notifying means comprises an audible or visual alarm operably connected to an electronic circuit that communicates with the sensors for notifying the user of the detected physical condition or environmental hazard.

19. – 22. Canceled

23. (original) The device of claim 1, wherein the device is removably attached to the user.

24. (previously presented) The device of claim 1, wherein the notifying means includes an electronic circuit communicating with a receiver not physically associated with the device.

25. (original) The device of claim 24, wherein the electronic circuitry includes data storage means.

26. (currently amended) A device having a unique identification and ~~capable of~~ for providing information about a physical condition and an environmental condition, the device comprising:

a first sensor physically associated with a user for detecting predetermined environmental hazards;

a second sensor physically associated with a user for detecting a physical condition as a biological or chemical change in the user;

means associated with the sensors for notifying the user or a third party of the detection of the environmental hazard or physical condition exceeding a predefined limit;

means for conveying the unique identification of the device and information obtained from the sensors to the third party.

27. (original) The device of claim 26, wherein the device comprises a wristband, patch or a tag attached to the user.

28. (previously presented) The device of claim 26, wherein the first sensor detects at least one of: predetermined chemicals, predetermined biological organisms, and radiation.

29. (previously presented) The device of claim 26, wherein the notifying means comprises an alarm for notifying the user of the detected environmental hazard_or physical condition.

30. (original) The device of claim 29, wherein the alarm comprises a visual alarm or an audible alarm.

31. (previously presented) The device of claim 30, wherein the alarm is operably connected to an electronic circuit that communicates with the sensors.

32. (previously presented) The device of claim 26, wherein the conveying means comprises a passive transmitter.

33. (original) The device of claim 32, wherein the transmitter comprises a radio frequency transmitter.

34. Canceled

35. (previously presented) The device of claim 26, wherein the physical condition detected includes at least one of: blood pressure, heart rate, temperature, oxygen level, glucose level, skin condition, blood chemistry alteration, lipid alteration, protein alteration, carbohydrate alteration, and genetic material alteration.

36. (previously presented) The device of claim 26, wherein the notifying means comprises an audible or visual alarm operably connected to an electronic circuit that communicates with the sensors for notifying the user of the detected physical condition or environmental hazard.

37. – 40. Canceled

41. (original) The device of claim 26, wherein the device is removably attached to the user or an article of clothing of the user.

42. (previously presented) The device of claim 26, wherein the notifying means includes an electronic circuit communicating with a receiver not physically associated with the device.

43. (original) The device of claim 42, wherein the electronic circuitry includes data storage means.

44. (currently amended) A system ~~capable of~~ for providing information about a physical condition and an environmental hazard, comprising:
a device being worn by a user and assigned a unique identification;
a first sensor physically associated with the device for detecting the environmental hazard;

a second sensor physically associated with the device for detecting a physical condition of the user;

a remote receiver communicating with the device;

means for conveying the unique identification of the device and information obtained from the sensors to the remote receiver; and

means associated with the sensors for notifying the user or the remote receiver of the detection of the environmental hazard and/or physical condition exceeding a predefined limit.

45. (original) The system of claim 44, wherein the device comprises a wristband, patch or a tag attached to the user or an article of clothing of the user.

46. (previously presented) The system of claim 44, wherein the first sensor detects at least one of: predetermined chemicals, predetermined biological organisms, and radiation.

47. (previously presented) The system of claim 44, wherein the notifying means comprises a visual or audible alarm for notifying the user or a third party of the detected environmental hazard or physical condition.

48. (previously presented) The system of claim 47, wherein the alarm is operably connected to an electronic circuit that communicates with the sensors.

49. (previously presented) The system of claim 44, wherein the conveying means comprises an electronic circuit including a passive transmitter.

50. (original) The system of claim 49, wherein the transmitter comprises a radio frequency transmitter.

51. (currently amended) The system of claim 44, wherein the second sensor is ~~capable of detecting~~ detects biological or chemical changes of the user, including at least one of: blood pressure, heart rate, temperature, oxygen level, glucose level, skin condition of the user, and alterations of blood chemistry, lipids, proteins, carbohydrates or genetic material.

52. (previously presented) The system of claim 51, wherein the notifying means comprises a visual or audible alarm for notifying the user or a third party of the detected environmental hazard or physical condition.

53. (original) The system of claim 52, wherein the alarm is operably connected to an electronic circuit that communicates with the first and second sensors.

54. (previously presented) The system of claim 51, wherein the conveying means comprises an electronic circuit including a passive transmitter in communication with the sensors.

55. (original) The system of claim 54, wherein the transmitter comprises a radio frequency transmitter.

56. (currently amended) A system ~~capable of~~ for providing information about a physical condition and an environmental hazard, comprising:

a device being worn by a user and assigned a unique identification;

a first sensor physically associated with the device for detecting the environmental hazard;

a second sensor physically associated with the device for detecting a physical condition of the user in the form of biological or chemical changes in the user;

a remote receiver communicating with the device;

an electronic circuit operably connected to the sensors and having a passive transmitter for conveying the unique identification of the device and information obtained from the sensors to the remote receiver; and

an alarm for notifying the user or the remote receiver of the detection of an environmental hazard or physical condition exceeding a predefined limit.

57. (original) The system of claim 56, wherein the device comprises a wristband, patch or a tag attached to the user or an article of clothing of the user.

58. (previously presented) The system of claim 56, wherein the first sensor detects at least one of: predetermined chemicals, predetermined biological organisms, and radiation.

59. (previously presented) The system of claim 56, wherein the alarm comprises a visual alarm for notifying the user or a third party of the detected environmental hazard or physical condition.

60. (original) The system of claim 56, wherein the alarm comprises an audible alarm operably connected to the electronic circuit.

61. (original) The system of claim 56, wherein the transmitter comprises a radio frequency transmitter.

62. (previously presented) The system of claim 56, wherein the biological or chemical changes in the user include at least one of: blood pressure, heart rate, temperature, oxygen level, glucose level, skin condition of the user, and alterations of blood chemistry, protein, carbohydrate, lipid, or genetic material.

63. (previously presented) The system of claim 62, wherein the notifying means comprises a visual or audible alarm for notifying the user or a third party of the detected environmental hazard or physical condition.

64. (original) The system of claim 63, wherein the alarm is operably connected to an electronic circuit that communicates with the first and second sensors.

65. (previously presented) The system of claim 62, wherein the conveying means comprises an electronic circuit including a passive transmitter in communication with the second sensor.

66. (original) The system of claim 65, wherein the transmitter comprises a radio frequency transmitter.

67. (currently amended) A method for monitoring physical and environmental conditions of users in a potentially hazardous environment, comprising the steps of:

assigning each user a device having a unique identification, a first sensor for detecting environmental conditions around the user, and a second sensor for detecting physical conditions of the user;

logging each identification into a database;

detecting a predetermined hazard using either the first or second sensor
a sensor of one or more of the devices;

conveying the unique identification and sensor information from the one or more devices to a receiver;

identifying the one or more devices detecting the predetermined hazard;
and

notifying the one or more users of the identified devices of the detection of the predetermined hazard.

68. (original) The method of claim 67, including the step of determining if the detected hazard exceeds a predefined limit.

69. (original) The method of claim 67, including the step of attaching a device to each user.

70. (original) The method of claim 69, wherein the device comprises a wristband, patch or tag attachable to the user or an article of clothing of the user.

71. (original) The method of claim 67, wherein the detecting step comprises the step of detecting an environmental hazard.

72. (previously presented) The method of claim 71, wherein the sensor detects at least one of: predetermined chemicals, predetermined biological organisms, and radiation.

73. (original) The method of claim 67, wherein the detecting step comprises the step of detecting a user physical condition hazard.

74. (original) The method of claim 73, wherein the detecting step comprises the step of detecting at least one of: blood pressure, heart rate, temperature, oxygen level, glucose level, skin condition, and alterations of blood chemistry, carbohydrates, lipids, proteins, or genetic material of each user.

75. (previously presented) The method of claim 67, wherein the conveying step includes the step of passively transmitting the unique identification and sensor information from the one or more devices to the receiver.

76. (original) The method of claim 75, including the step of using a radio frequency transmitter to transmit the unique identification and sensor information from the one or more devices to the receiver.

77. (original) The method of claim 67, wherein the notifying step includes the step of activating an alarm to notify the one or more users of the detection of the hazard exceeding a predefined limit.

78. (original) The method of claim 77, including the step of continuously monitoring the user in real time to create control data prior to detecting an abnormal physical condition.

79. (currently amended) A method for monitoring physical and environmental conditions of users in a potentially hazardous environment, comprising the steps of:

attaching a device to each user, the device having a unique pre-assigned identification, a first sensor for detecting environmental conditions around the user, and a second sensor for detecting physical conditions of the user;

logging each identification into a database;

detecting a predetermined hazard using either the first or second sensor ~~a sensor~~ of one or more of the devices;

transmitting the unique identification and sensor information from the one or more devices to a receiver;

identifying the one or more devices detecting the predetermined hazard;

determining if the detected predetermined hazard exceeds a predefined limit;

notifying the one or more users of the identified devices of the detection of the predetermined hazard exceeding the predefined limit.

80. (original) The method of claim 79, wherein the device comprises a wristband, patch or tag attachable to the user or an article of clothing of the user.

81. (original) The method of claim 79, wherein the detecting step comprises the step of detecting an environmental hazard.

82. (previously presented) The method of claim 81, wherein the sensor detects at least one of: predetermined chemicals, predetermined biological organisms, and radiation.

83. (original) The method of claim 79, wherein the detecting step comprises the step of detecting a user physical condition hazard.

84. (original) The method of claim 83, wherein the detecting step comprises the step of detecting the alteration of at least one of: blood pressure, heart rate, temperature, oxygen level, glucose level, skin condition, lipid levels, protein levels, carbohydrate levels, and genetic material of each user.

85. (original) The method of claim 79, including the step of using a radio frequency transmitter to transmit the unique identification and sensor information from the one or more devices to the receiver.

86. (original) The method of claim 79, wherein the notifying step includes the step of activating an alarm to notify the one or more users of the detection of the hazard exceeding the predefined limit.

87. (original) The method of claim 86, including the step of continuously monitoring the user in real time to create control data prior to detecting an abnormal physical condition.